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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/737,628	12/15/2000	Tim Kerry Keyes	85CF-00113	7903
7590 03/30/2004			EXAMINER	
John S. Beulick			POINVIL, FRANTZY	
Armstrong Teasdale LLP Suite 2600			ART UNIT	PAPER NUMBER
One Metropolitan Sq.			3628	
St. Louis, MO	63102		DATE MAILED: 03/30/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
*	09/737,628	KEYES ET AL.				
Office Action Summary	Examiner	Art Unit				
	Frantzy Poinvil	3628				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>15 December 2000</u> .  2a) This action is <b>FINAL</b> .  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
<ul> <li>4)  Claim(s) 1-24 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-10, 14-18 and 22-24 is/are rejected.</li> <li>7)  Claim(s) 11-13 and 19-21 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the order o	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 4.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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#### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2, 9-10 and 17-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Freeman et al. (US Patent No. 6,249,775).

As per claims 1, 9 and 17, Freeman et al disclose a method for sampling assets in an asset portfolio for optimal underwriting coverage when only a portion of the assets are to be underwritten, said method comprising the steps of: determining descriptive attributes of assets in the portfolio; encoding individual attributes; and clustering the assets for underwriting based upon occurrences of the descriptive attributes. Applicant is directed to column 6, line 12 to column 7, line 41.

As per claims 2, 10 and 18, Freeman et al disclose the steps of determining a number of samples to be submitted for further underwriting review. Applicant is directed to column 2, line 57 to column 8, line 10.

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### Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6-8, 14-16 and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Freeman et al. (US Patent No. 6,249,775).

As per claims 6-8, 14-16 and 22-24, the teachings of Freeman et al. are discussed above. Clustering of financial instruments using a Monte Carlo process is well practiced in the art. Clustering the assets for underwriting comprising the step of using a supervised or an unsupervised clustering process to cluster the assets is not explicitly stated in Freeman et al. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the well known Monte Carlo simulation technique in the system of Freeman et al in order to obtain a more accurate manner of clustering the different types of assets in the portfolio therein.

## Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

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Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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Claims 1-8 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The basis of this rejection is set forth in a two prong test of:

- (1) whether the invention is within the technological arts; and
- (2) whether the invention produces a useful, concrete and tangible result.

For a claimed invention to be statutory, the claimed invention must be within the technological arts. Mere ideas in the abstract (i.e., abstract idea, law of nature, natural phenomena) that do not apply, involve, use or advance the technological arts fail to promote the "progress of science and the useful arts" (i.e., the physical sciences as opposed to social sciences, for example) are found to be non-statutory subject matter. For a process claim to pass muster, the recited process must somehow apply, involve, use, or advance the technological arts. In the present case, claims 1-8 do not recite any structure or functionality to suggest that a computer performs the recited claims. Thus, claims 1-8 are rejected as being directed to non-statutory subject matter.

Allowable subject matter

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Claims 11-13 and 19-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. The prior art taken alone or in combination failed to teach or suggest features recited in claims 3, 11 and 19. Claims 4-5, 12-13 and 20-21 are allowable over the art of record by virtue of being dependent to claims 3, 11 and 19.

#### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frantzy Poinvil whose telephone number is (703) 305-9779. The examiner can normally be reached on Monday-Thursday 7:00AM-5:30PM.

The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9326 for regular communications and (703) 872-9327 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

FP March 19, 2004

AU 3628

PRIMARY EXAMINER